

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/524,152A  
Source: PCT  
Date Processed by STIC: 2/7/06

# ***ENTERED***



PCT

## RAW SEQUENCE LISTING

DATE: 02/07/2006

PATENT APPLICATION: US/10/524,152A

TIME: 12:50:50

Input Set : A:\Sequence Listing 4126-4025.txt

Output Set: N:\CRF4\02012006\J524152A.raw

```

3 <110> APPLICANT: Pharma Mar, S.A.U.
4   Perez Esteban, Beatriz
6 <120> TITLE OF INVENTION: Sequences From An Endosymbiont And Their Uses
8 <130> FILE REFERENCE: 4126-4025
10 <140> CURRENT APPLICATION NUMBER: US 10/524,152A
11 <141> CURRENT FILING DATE: 2005-02-11
13 <150> PRIOR APPLICATION NUMBER: PCT/GB2003/003538
14 <151> PRIOR FILING DATE: 2003-08-13
16 <160> NUMBER OF SEQ ID NOS: 14
18 <170> SOFTWARE: PatentIn version 3.3
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 1502
22 <212> TYPE: DNA
23 <213> ORGANISM: Candidatus Endoecteinascidia frumentensis
25 <400> SEQUENCE: 1
26 atgaattctg gtggcactgc ttaacacatg caagtcgaac ggtaacataa taaatgtttt      60
28 ttacatttat ggatgacgag tggcggacgg gtgagtaacg cgtaggaacc taccttttag      120
30 tgggggatag cagtgggaaa ctactggtaa taccgcatga tacttttagag ttaaaaactag      180
32 ctgaatttta tagcttggtc taaaagacgg gcctgcgtta gattagcttg ttggtaaggt      240
34 aacggcttac caaggcaacg atctatagct gttctgagag gaagatcagc cacactggga      300
36 ctgagatacg gccagactc ctacgggagg cagcagtggg gaatattgga caatgggcgg      360
38 aagcctgatc cagcaatgcc acgtgtgtga agaaggcctt cgggttgtaa agcactttta      420
40 ttagcgaaga agatataatg gttaagagct taatatattt gacgttagct aaagaaaaag      480
42 caccggctaa ctccgtgcc aagcgcggcg taatacggag ggtgcaagcg ttaatcggaa      540
44 ttattgggcg taaagagcct gtaggtggat aattaagtca gatgtgaaat cccaaagcct      600
46 aactttggaa ctgcatttga aactaattat ctagagtata gtagagggta gaggaatttc      660
48 cgggtgtagc gtgaaatgcg tagagatcgg aaggaacatc agtggcgaag gcgtctacct      720
50 gggactaaaa ctgacactga gaggcgaaag catggggagc aaacaggatt agataccctg      780
52 gtagtccatg ccgtaaaacta tgagtactaa ctgttggaat ttttaaattt tagtagtgga      840
54 gctaacgcaa taagtactcc gcctggggat tacggccgca aggctaaaac tcaaaggaat      900
56 tgacgggggc ccgcacaagc ggtggagcat gtggtttaat tcgatgcaac gcgaaaaacc      960
58 ttacctactc ttgaaatcct tcgtacttta tagagatata aagggtgcctt tggaaacgaag     1020
60 tgacaggtgc tgcattggctg tcgtcagctc gtgtcgtgag atgttggtgtt aagtcccgtg     1080
62 acgagcgcaa ccctttccct tagttgccag cgtgtaaaaga cggggactct gaggggactg     1140
64 ccggtgataa accggaggaa ggcgaggacg acgtcaagtc atcatggtcc ttacgagtag     1200
66 ggctacacac gtgctacaat ggtatgtaca aaggagggca aaattgtaaa atctagcaaa     1260
68 tccccaaaag catatcttag tccggattga agtctgcaac tcgacttcat gaagttggaa     1320
70 tcgctagtaa tcgcgaatca gcatgtcgcg gtgaatacgt tcccgggcct tgtacacacc     1380
72 gcccgtcaca ccacggaagt ggaatgcacc agaagtggct aggataaccg aaaggagtcc     1440
74 ggtccctacg gtgtgtttcg taactggggg gaagtcgtaa caaggtagcc gtaggggaact     1500
76 gc
79 <210> SEQ ID NO: 2
80 <211> LENGTH: 32

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81 <212> TYPE: DNA
82 <213> ORGANISM: Artificial Sequence
84 <220> FEATURE:
85 <223> OTHER INFORMATION: EFRU-F1
87 <400> SEQUENCE: 2
88 cggtaacata ataaatgttt tttacattta tg          32
91 <210> SEQ ID NO: 3
92 <211> LENGTH: 25
93 <212> TYPE: DNA
94 <213> ORGANISM: Artificial Sequence
96 <220> FEATURE:
97 <223> OTHER INFORMATION: EFRU-R1
99 <400> SEQUENCE: 3
100 tatgcttttg gggatttgct agatt          25
103 <210> SEQ ID NO: 4
104 <211> LENGTH: 20
105 <212> TYPE: DNA
106 <213> ORGANISM: Artificial Sequence
108 <220> FEATURE:
109 <223> OTHER INFORMATION: EFRU-R2
111 <400> SEQUENCE: 4
112 ctttcgggta tcctagccac          20
115 <210> SEQ ID NO: 5
116 <211> LENGTH: 23
117 <212> TYPE: DNA
118 <213> ORGANISM: Artificial Sequence
120 <220> FEATURE:
121 <223> OTHER INFORMATION: Type III-1
123 <400> SEQUENCE: 5
124 gcaactatct ctagctgtta ttc          23
127 <210> SEQ ID NO: 6
128 <211> LENGTH: 21
129 <212> TYPE: DNA
130 <213> ORGANISM: Artificial Sequence
132 <220> FEATURE:
133 <223> OTHER INFORMATION: Type III-4
135 <400> SEQUENCE: 6
136 agctttgcac tggatgtcaa g          21
139 <210> SEQ ID NO: 7
140 <211> LENGTH: 18
141 <212> TYPE: DNA
142 <213> ORGANISM: Artificial Sequence
144 <220> FEATURE:
145 <223> OTHER INFORMATION: EUB338
147 <400> SEQUENCE: 7
148 gctgcctccc gtaggagt          18
151 <210> SEQ ID NO: 8
152 <211> LENGTH: 18
153 <212> TYPE: DNA

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154 <213> ORGANISM: Artificial Sequence
156 <220> FEATURE:
157 <223> OTHER INFORMATION: Non-EUB338
159 <400> SEQUENCE: 8
160 actcctacgg gaggcagc 18
163 <210> SEQ ID NO: 9
164 <211> LENGTH: 20
165 <212> TYPE: DNA
166 <213> ORGANISM: Artificial Sequence
168 <220> FEATURE:
169 <223> OTHER INFORMATION: EUB8-f
172 <220> FEATURE:
173 <221> NAME/KEY: misc_feature
174 <222> LOCATION: (3)..(3)
175 <223> OTHER INFORMATION: N is A or G
177 <220> FEATURE:
178 <221> NAME/KEY: misc_feature
179 <222> LOCATION: (12)..(12)
180 <223> OTHER INFORMATION: N is A or C
182 <400> SEQUENCE: 9
-> 183 agngtttgat cntggctcag 20
186 <210> SEQ ID NO: 10
187 <211> LENGTH: 18
188 <212> TYPE: DNA
189 <213> ORGANISM: Artificial Sequence
191 <220> FEATURE:
192 <223> OTHER INFORMATION: EUB1509-r
195 <220> FEATURE:
196 <221> NAME/KEY: misc_feature
197 <222> LOCATION: (2)..(2)
198 <223> OTHER INFORMATION: N is G or T
200 <400> SEQUENCE: 10
-> 201 gntaccttgt tacgactt 18
204 <210> SEQ ID NO: 11
205 <211> LENGTH: 21
206 <212> TYPE: DNA
207 <213> ORGANISM: Artificial Sequence
209 <220> FEATURE:
210 <223> OTHER INFORMATION: 16S-F1
213 <220> FEATURE:
214 <221> NAME/KEY: misc_feature
215 <222> LOCATION: (5)..(5)
216 <223> OTHER INFORMATION: N is G or C
218 <220> FEATURE:
219 <221> NAME/KEY: misc_feature
220 <222> LOCATION: (13)..(13)
221 <223> OTHER INFORMATION: N is A, C, or T
223 <400> SEQUENCE: 11
-> 224 gagantttga tcntggctcag 21

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## RAW SEQUENCE LISTING

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TIME: 12:50:50

Input Set : A:\Sequence Listing 4126-4025.txt

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227 <210> SEQ ID NO: 12
228 <211> LENGTH: 17
229 <212> TYPE: DNA
230 <213> ORGANISM: Artificial Sequence
232 <220> FEATURE:
233 <223> OTHER INFORMATION: 1600R
235 <400> SEQUENCE: 12
236 aaggaggtga tccagcc 17
239 <210> SEQ ID NO: 13
240 <211> LENGTH: 17
241 <212> TYPE: DNA
242 <213> ORGANISM: Artificial Sequence
244 <220> FEATURE:
245 <223> OTHER INFORMATION: M13/pUC-f
247 <400> SEQUENCE: 13
248 gttttccag tcacgac 17
251 <210> SEQ ID NO: 14
252 <211> LENGTH: 17
253 <212> TYPE: DNA
254 <213> ORGANISM: Artificial Sequence
256 <220> FEATURE:
257 <223> OTHER INFORMATION: M13/pUC-r
259 <400> SEQUENCE: 14
260 caggaaacag ctatgac 17
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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/524,152A

DATE: 02/07/2006  
TIME: 12:50:51

Input Set : A:\Sequence Listing 4126-4025.txt  
Output Set: N:\CRF4\02012006\J524152A.raw

Please Note:

One or more of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> <223> fields of each sequence which presents at least one n or Xaa.

Seq#:9; N Pos. 3,12  
Seq#:10; N Pos. 2  
Seq#:11; N Pos. 5,13

## VERIFICATION SUMMARY

DATE: 02/07/2006

PATENT APPLICATION: US/10/524,152A

TIME: 12:50:51

Input Set : A:\Sequence Listing 4126-4025.txt

Output Set: N:\CRF4\02012006\J524152A.raw

183 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0  
201 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0  
224 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0